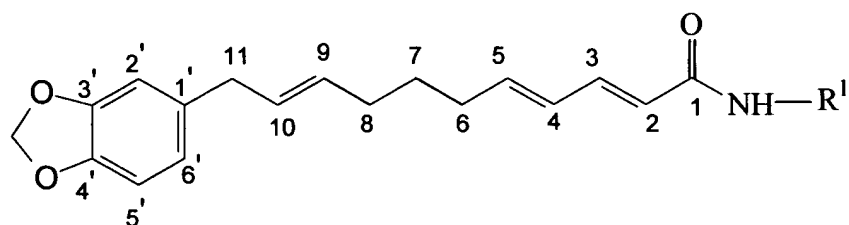


# **LISTING OF CLAIMS**

1. (Canceled)
2. (Canceled)
3. (Currently Amended ) **An essentially pure compound having the following structure of Formula II:**



wherein R<sup>1</sup> is ~~t-butyl group [-CH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub>]~~ isobutyl (-CH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub>).

4. (Currently Amended ) A pharmaceutical composition comprising ~~[[an]]~~ a therapeutically effective amount of the essentially pure compound as claimed in claim 1 claim 3 together with at least one pharmaceutically acceptable excipient.
5. (Currently Amended ) The pharmaceutical composition of claim 4, wherein the composition is in oral form.
6. (Currently Amended ) The pharmaceutical composition of claim 4, wherein the composition is in intravenous form.

7. (Currently Amended ) The pharmaceutical composition of claim 4, wherein the composition is in subcutaneous form.

8. (Currently Amended ) The pharmaceutical composition of claim 4, wherein the composition is in intramuscular form.

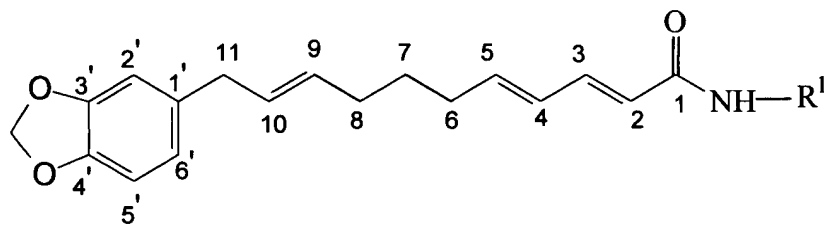
9. (Currently Amended ) The pharmaceutical composition of claim 4, wherein the composition is in inhalation form.

10. (Canceled)

11. (Currently Amended ) ~~The chemically modified compound according to claim 10~~ pharmaceutical composition of claim 4, wherein said composition is chemically modified as a therapeutically effective compound is a salt.

12. (Canceled)

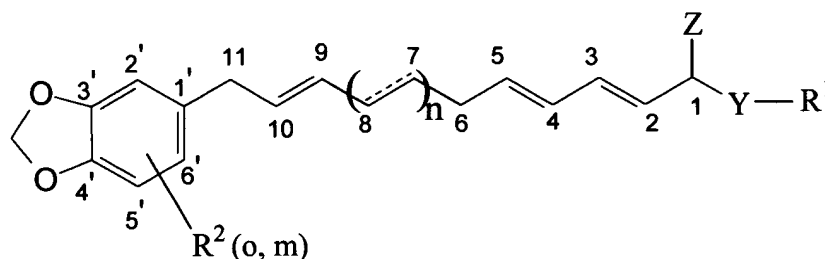
13. (Currently Amended ) ~~A method of obtaining a compound as claimed in claim 1~~ an essentially pure compound of Formula II:



wherein R<sup>1</sup> is isobutyl (-CH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub>), comprising extracting and purifying the compound from Piper laetispicum of Piperaceae family.

14. (Currently Amended ) A method of treating a disease characterized as mental disorder, comprising administering to a patient suffering from said disease with a therapeutically effective amount of an essentially pure compound of

Formula I:



wherein R<sup>1</sup> is selected from the group consisting of hydrogen, C<sub>1-10</sub> alkyl and aromatic cyclic group, R<sup>2</sup> is selected from the group consisting of hydrogen, OR<sup>3</sup>, NH<sub>2</sub>, NHR<sup>3</sup>, and halogen,

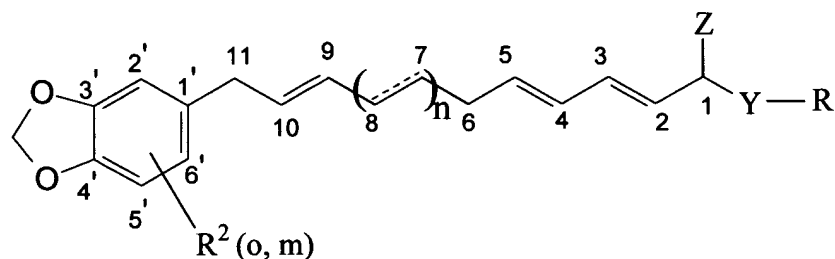
Z is selected from the group consisting of =O, OH, NHR<sup>3</sup>, SH, and SR<sup>3</sup>, wherein R<sup>3</sup> is C<sub>1-10</sub> alkyl or aromatic cyclic group, (C<sub>7</sub>-C<sub>8</sub>)<sub>n</sub> includes at least one single bond or at least one double bond, n is an integer having a value of 0 to 10, and Y is selected from the group consisting of NH, NR<sup>3</sup>, O, and S, with said disease an effective amount of a compound as claimed in claim 1.

15. (Original ) The method of claim 14, wherein the disease is depression.

16. (Original ) The method of claim 14, wherein the disease is psychopathic disease.

17. (Original ) The method of claim 14, wherein the disease is Alzheimer's disease.

18. (Currently Amended ) A method of alleviating a symptom characterized as inflammation and pain, comprising administering to a subject suffering from said symptom with a therapeutically effective amount of an essentially pure compound of Formula I:



wherein R<sup>1</sup> is selected from the group consisting of hydrogen, C<sub>1-10</sub> alkyl and aromatic cyclic group, R<sup>2</sup> is selected from the group consisting of hydrogen, OR<sup>3</sup>, NH<sub>2</sub>, NHR<sup>3</sup>, and halogen,

Z is selected from the group consisting of =O, OH, NHR<sup>3</sup>, SH, and SR<sup>3</sup>, wherein R<sup>3</sup> is C<sub>1-10</sub> alkyl or aromatic cyclic group, (C<sub>7-8</sub>)<sub>n</sub> includes at least one single bond or at least one double bond, n is an integer having a value of 0 to 10, and Y is selected from the group consisting of NH, NR<sup>3</sup>-, O, and S. ~~with said symptom an effective amount of a compound as claimed in claim 1.~~